

Center for **Technology Commercialization**

NASA Northeast Regional Technology Transfer Center

Technical Progress Report

Final Report January 1, 2000 - March 31, 2001

Submitted: June 2001

Submitted to:

NASA Goddard Space Flight Center Technology Commercialization Office Greenbelt Road, Mail Code 750 Greenbelt, Maryland 20771 Attn: Ms. Nona Cheeks Mr. Steven Lloyd

Submitted by:

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Contract # NAS5-97149

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Metric Summary

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Active Leads Summary

- Major Outreach Events
- Business Outreach Program Overview
- Technology into the Zone Overview
- Major Activities/Initiatives

Executive Summary

This report is a summary of the primary activities and metrics for the NASA Northeast Regional Technology Transfer Center, operated by the Center for Technology Commercialization, Inc. (CTC). This report covers the contract period January 1, 2000 – March 31, 2001.

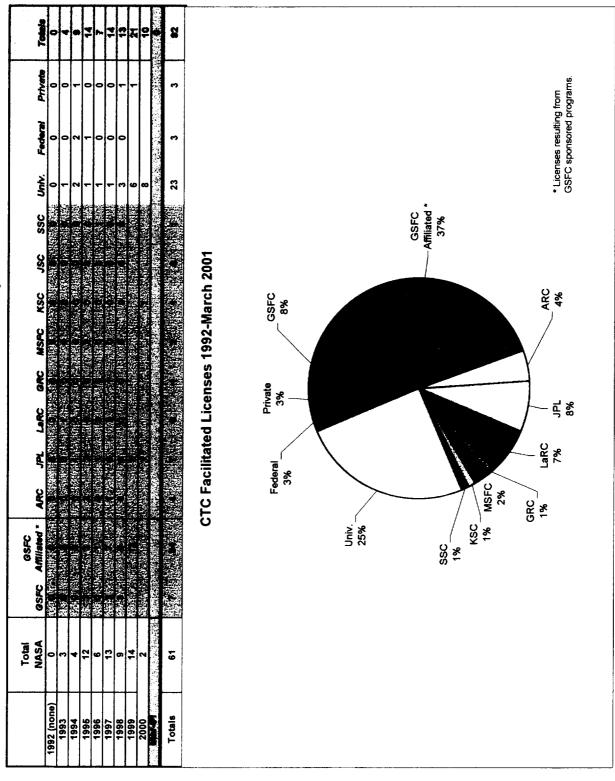
This report includes a summary of the overall CTC Metrics, a summary of the Major Outreach Events, an overview of the NASA Business Outreach Program, a summary of the Activities and Results of the Technology into the Zone program, and a Summary of the Major Activities and Initiatives performed by CTC in supporting this contract.

Between January 1, 2000 and March 31, 2001, CTC has facilitated 10 license agreements, established 35 partnerships, provided assistance 517 times to companies, and performed 593 outreach activities including participation in 57 outreach events. CTC also assisted Goddard in executing a successful *Technology into the Zone* program.

CTC is pleased to have performed this contract, and looks forward to continue providing their specialized services in support of the new 5 year RTTC Contract for the Northeast region. Please direct any questions regarding this report to Dr. William Gasko, Director of the N.E. RTTC or James Dunn, Deputy Director, at 508-870-0042.

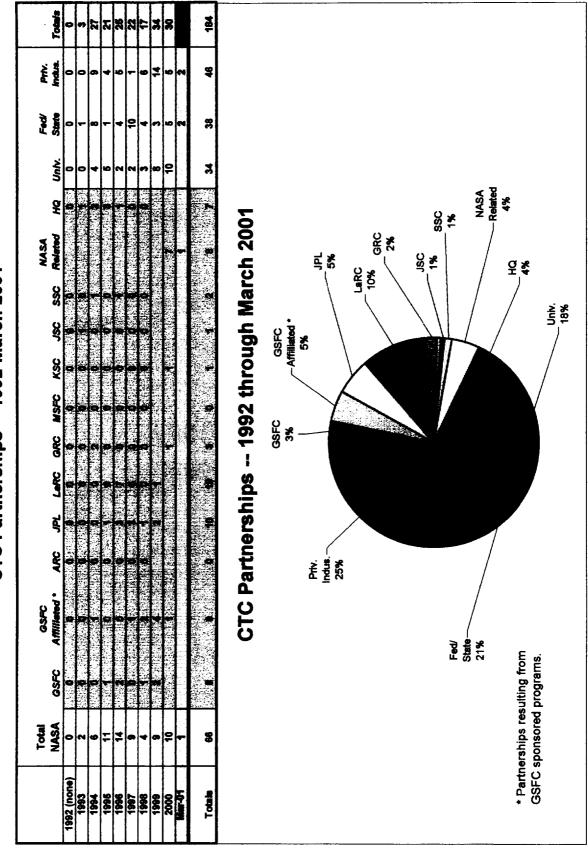
•	1993	1994	1995	1996	1997	1998	1999	2000	Mar 2001	CUMULATIVE (1993 -2000)
Licenses Completed	က	10	14	7	14	13	21	10	0	92
icenses in Process	17	33	48	32	30	26	29	19	23	n/a
Partnerships Completed	2	30	19	25	22	17	34	30	5	184
Partnerships in Process	22	33	24	15	25	25	29	31	38	n/a
Technical Assistance	n/r	1270	834	264	339	189	122	258	23	3299
Commercial Assistance	n/r	389	540	342	193	143	277	168	99	2118
SBIR Assistance	n/r	n/r	n/r	21	20	27	15	7	2	92
eads to Goddard	n/r	n/r	n/r	n/r	n/r	n/r	26	24	3	53
Outreach	n/r	n/r	n/r	n/r	n/r	n/r	257	555	38	850
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CTC Facilitated Licenses 1992-April 2001



CTC Partnerships -- 1992-March 2001

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NORTHEAST RTTC Metric Information Report (MIR) 2000

*Outreach activities are recorded since January 1, 1999
** Lead to Goddard are recorded as of December 1999
n/a = not applicable
N/R = Not recorded

NORTHEAST RTTC
Metric Information Report (MIR)
2001

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*Outreach activities are recorded since January 1, 1999
** Leads to Gooddard are recorded as of December 1999
n/a = not applicable
N/R = Not recorded

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NORTHEAST RTTC
Metric Information Report (MIR) by State
Period Covered: 1993 - 2000

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LICENSING												•				
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b) In Process	r∕a	9	n/a	2	n/a	5	n/a	2	n/a	3	n/a	0	n/a	0	n/a	18
TECHNOLOGY																
PARTNERSHIP																
AGREEMENTS																
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b) In Process	n/a	16	n/a	ဗ	n/a	6	n/a	-	n/a	2	n/a	0	n/a	0	n/a	31
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TRANSFER																
& COMMERCIAL																
SERVICES																
a) Technical		-														
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b) Commercial																
Assistance	627	8	211	8	1 38	4	210	5	286	2	88	ß	7	တ	1884	168
c) SBIR																
Assistance	8	-	2	0	6	-	80	2	17	3	က	0	-	0	83	7
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GODDARD **	12	8	4	-	0	7	0	0	0	3	0	5	0	0	26	24
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n/a = not applicable

n/r = not recorded before 1999

Outreach = client prospects, events, and marketing activities

* Outreach activities are recorded since January 1, 1999

** Leads to Goddard are recorded as of December 1999

NORTHEAST RTTC
Metric Information Report (MIR) by State
Period Covered: 1993 - March 2001

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n/a = not applicable																

n/a ≈ not applicable

n/r ≈ not recorded before 1999

Outreach ≈ client prospects, events, and marketing activities

* Outreach activities are recorded since January 1, 1999

** Leads to Goddard are recorded as of December 1999

Licenses Completed 1993 through March 2001

SPACE CENTER, AGENCY, UNIVERSITY OR COMPANY	NAME OF COMPANY	METRIC #	DESCRIPTION	STATE	DATE
1 U UNM/TDC	KHORAL RESEARCH, INC.	417	417 SOFTWARE ENVIRONMENT	¥ 2	Jun-93
3 N SPACE TELESCOPE SCI INST	ASTRONOMICAL SOCIETY OF THE PACIFIC	416	POGITIZED COMPRESSED SKY SURVEY	3	6-93 7
	BINAX INC	1	RAPID MATERIAL BLOOD TEST	ME	Jun-94
N NASAL PROMISSION NESTRANSIA	ROCHESTER GAS & ELECTRIC	THE 27 THE	Now, merking cylykan i wolf		3
7 F NAVY SWC	ANEPTEK CORPORATION	181	AIRBORNE VOC REMEDIATION	WA	Jul-94
8 N NSA PRINTING	EASTWAN KODAK	8		E S	3
9 U UNIV NEW MEXICO		436	PLEOTROPHIC REGULATORS	¥ deno	Aug-94
	WANTERSTEIN WAR WAS TO THE WAY WAS T	**	REPORT GENERATING BOTTHARE	7	1. A
	HONEYWELL, SOLID STATE ELECTRONICS	76	SILCON CHIP TRANSCEIVER	¥.	7-10 m
12 N SPACE TELESCOPE, SCHWST	NEWTRNO NO. THE CONTRACT OF THE PERSON	122	FOREIGN SALES	7	8
13 N SPACE TELESCOPE SCI INST	NATIONAL GEOGRAPHIC	510	HST IMAGES ON CD-ROM MEDIA.	2	Dec-94
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15 N NASA ARC	DIMENSION TECHNOLOGIES CORP. (DTI)	Ξ	AUTOSTEROSCOPIC DISPLAY	ÇP NY	Apr-95
Z	DIMENSION TECHNOLOGIES CORP. (OT)		AUTOSTEROSCOREZ DISSULAY	X S	*
Z	DIMENSION TECHNOLOGIES CORP. (DTI)	118	AUTOSTEROSCOPIC DISPLAY	ÇP NY	Apr-95
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	WHEELRING, INC.	12	WALKER	3	Jun-95
3	WIELRING, NO. III.	*****	4 - CABLE COMPLIANT CONT	2	Jene
	EDUCATION MANAGEMENT GROUP	372	EDUCATIONAL COURSES	LN Jerumanan	
NSA'P.	WHINDUSTRES	-	BIT I TO BAND ANTENAK		84
÷	DIMENSION TECHNOLOGIES	120	HIGH RES AUTOSTEROSCOPIC DISPLAY	UP NY	Jun-95
Z	TOTAL QUALITY MEASURES, INC.	110	ORTHOTIC INEE BRACE	LX4X	Ag-85
	TOTAL QUALITY MEASURES, INC.	60		TWHN T	3
-54	CAMBRIDGE UNIVERSITY PRESS	2288	ENDEAVOR VISITS THE EARTH	2	8
Z	CAMBRIDGE UNIVERSITY PRESS	2263	"GEMS OF HUBBLE"	7	Oct-95
. ၁	INTERVAL RESEARCH CORPORATION	226	DETECT CHOS IN SOFTWARE PROGS	×	8
Z	PYROMETER INSTRUMENT COMPANY, INC.	2036	PYROMETRIC TECHNOLOGY	VP NY	- 3
2	AMERICAN GAS AND CHEMICAL INC.	220(CO CATALYST TECHNOLOGY	間の開闢	36-17
	CAMBRIDGE UNIVERSITY PRESS	1983	HST MAGES AND CAPTIONS	₹	Jun-96
Z	ESTEE LAUDER COSMETICS	1806	FLUORWATED CLY FLM & CONTING TECH.	X D	8
33 N NASA STENNIS	SAFETY SCAN, INC.	1896	HYDROGEN FLAME DETECTOR	VPNY	Nov-96
Z	MOVNE CORPORATION	224.III.	Fourth Property Comments of the comments of th	N	Dec 8
35 N NASA GSFC	MCROCOSM, INC.	2388	■	2	Jen-97
36 N MASA LORC	NVENTON FACTORY INCIDENTIAL PROPERTY OF THE PR	246	#		
37 N NASA GSFC	CTA SPACE SYSTEMS	2776	REACTION/MOMENTUM WHEEL	3	Jan-97

Licenses Completed 1993 through March 2001

SPACE CENTER, AGENCY, UNIVERSITY OR COMPANY	NAME OF COMPANY	METRIC #	DESCRIPTION	STATE	DATE
8 N NSA LARC LIMITALINA	ARPLOW CATALYST SYSTEMS, INC.	2801		N. W.	WAC'ST
9 N NASA GSFC - UNM	υi	2814	RAD TOLERANT ASIC LIBRARY	¥	May-97
Z	INTERNATION OF THE PROPERTY OF	8	ANTICING DECENGITE CHACLOSY		15.5
i	ESTEE LAUDER	2477	COATING OF METAL OXIDE PARTICLES	LINY	Sep-97
2 N SPACE TELESCOPE SCI INST	CAMERDOE UNVERSITY PRESS	88	PUBLICATION GENERAL MERICAL	2	19
-	ASTRONOMICAL SOCIETY OF THE PACIFIC	2968	REALSKY SOFTWARE	3	Nov-97
	W SECOND NATURE SOFTWARE, NC.	203	HUBBLE SCREENSAVER		No.
S N SPACE TELESCOPE SCHINST	CAMBRIDGE UNIVERSITY PRESS	3032	GEMS OF HUBBLE SUBLICENSE	7	Nov-97
T	EGITECH APPLICATIONS IN THE STATE OF THE STA	9000	SOOTH HUBBLE SPACE LIPRARICO, FOR I		200
į.	PACIFIC SCIENTIFIC COMPANY	2352	FIRE EXTINGUISHING AGENTS	£	Dec-97
100	M-WAZON CON BOOKS MIT THE STATE OF THE STATE	3028	HUBBLE SPACE LIBEARY CO. ROW	7	2000
ţ	INTERVAL LOGIC CORPORATION	2262	"SPIKE" TELESCOPE SCHED SOFTWARE	3	Jan-98
Z	ASTRONOMICAL SOCIETY OF THE PACFIC	228	TO THE CLASSICON THE CLASSICON	7	8
	SCI TECH APPLICATIONS	3276	HST IMAGES ON POSTCARDS	3	Aug-98
13.		2030	2030 LOSSLESS COMPRESSON ALGORITHMS	Ç	8 8
S3 N SPACE TELESCOPE SCHINST	SCI TECH APPLICATIONS	3281	HST IMAGES ON STAMPS	7	0ct-98
32	HOWARD SCHOOLER FINE ART GALLERY	x	HST WAGES FOR WITEXPERIMENTS	7	8 8
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57 U UNIVERSITY OF NEW HAMPSHIRE	POLYROLL, INC.		LOW ENERGY PLASMA FOR POLYMERS	NHWE	Dec-98
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1	INSTITUTE OF PHYSICS PUB, LONDON		HUBBLE IMAGES FOR BOOK	3	Dec-98
M NASA OSFC	WITH WELL WATER THE	2266	CAPACIFICAL TECHNOLOGIC	Ž	8
61 N SPACE TELESCOPE SCI INST	THE BLUE GALLERY	3237	HUBBLE ART EXHIBIT	3	Dec-98
62 U UNIVERSITY OF NEW HAMPSHIRE	PAU ECE PANCHIMITE	828	CROP PRODUCTION	1	3 5
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64 U UNIVERSITY OF NEW HAMPSHIRE	PULIGHT SYSTEMS	341	SOTTWAREGREEN FOUR LOKITING	7.1	8
65 N NASA JPL/CALTECH	COMPTEK/AMHERST SYSTEMS INC	3321	VISION TARGET TRACKING	VN-d∩	Aug-99
Z	IN WEICH ALTHUR THE	2815	ARTIFICAL NOSEFORMEDIZAL ME	A CO	8
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Z	IN POORNET TO THE PROPERTY OF	3465	PADATION TOLERANT BEGINGANCE		8
69 N UNIVERSITY OF NEW MEXICO	PICODYNE	3456	RADIATION TOLERANT ELECTRONICS	\$	Oct-99
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73 N UNIVERSITY OF NEW MEXICO	PICODYNE	3460	ULTRA LOW POWER ELECTRONICS	≨	0ct-80

Licenses Completed 1993 through March 2001

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N = NASA & NASA Related

U = University

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STOF NH / INVENTION FACTORY S80 MAPLE SYRUP CHERKY SEMICONDUCTOR 1.586 1.584 1.	4	P BTRAUMANN USA	のするとは、一般には、一般には、一般には、一般には、一般には、一般には、一般には、一般に	487		W W	į
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	SHIP (4)	AINE	BIODE INC	378	ACCUSITC ABSORPTION DNA BIOSENSOR	Ä	Mar-95

ACTIVITY	SPACE CENTER/AGENCY/COMPANY	NAME OF COMPANY	METRIC	BRIEF DESCRIPTION S	STATE	DATE
41 PARTNERSHIP (4)	U UNIVERSITY OF MAINE ORONO	SRD CORPORATION	380			Mar-95
42 CRADA SHITTER	42 CRADA WATARE CENTER	2 LURESTONE THE PROPERTY OF TH	88	SOMETHORNOUS CONTRACTOR		8
43 PARTNERSHIP	P CTC INC	CAFA	13	FIBER OPTIC		Jun-95
44 SAA	4 SA TANK N N SA JAMES HILL LINE TO THE TANK OF THE TA	KYH NOUSTRESTILL THE THE WAY THE	112	A STATE OF THE PARTY OF THE PAR	R	8
45 SAA	N NASA LaRC	HGG LASERFARE LTD	1287			Aug-95
46 PARTNERSHIP	PARTNERSHIP THE IN WASA LARCIED WITH THE PARTNERSHIP THE PARTN		1780			10.0
47 PARTNERSHIP	NASA	BROWN UNIVERSITY	1888	SATELLITE MONITORING	ē.	Nov-95
48 PARTNERSHIP	200	APPLIED BCIENCE ASSOCIATES, INC. (ASA)	2706	KATEL THE WONTONING		8
49 SAA	N NASA GSFC		2127	METAL STRUCTURE PRODUCT		Nov-95
50 SAA	SO SA CHARLES OF THE PROPERTY	LOCINE CORPURED IN THE SELECTION OF THE PROPERTY OF THE PERSON OF THE PE	2.5			8
51 PARTNERSHIP	N NASA LaRC	3	2235			Dec-95
52 PARTNERSHIP	PARTNERSHIP TO CTC INCHIBITED WITH THE WAY	FRAUNIOFER USATHER TO THE STATE OF THE STATE	KI BI	SESSEE LEWEN VESS		
	U CTC INC		2000	Ž.		Jan-96
54 PARTNERSHIP	PARTNERSHIP P. UNAMMED CALFORNA COMPANY HIS		200	2=1 -: 1 -: 1 -: 1 -: 1 -: 1 -: 1 -: 1 -:		8
55 SAA	N NASA LaRC	DOW-UT	2204	HIGH TEMP RESINS	5	Feb-96
	SAA TATALAN NASKING MANAGAMAN MANAGA	AMERICAN GAS & CHEMICAL INC.			5	20
	N NASA LaRC	2	2497	LY FILM & COATING	LINY	Mar-96
	PARTNERSHIP IN NASA LARCING AND THE SHIP IN THE SHIP I		2407			
59 PARTNERSHIP	N NASA Larc	IMIDYNE CORP	2499	VATER RESIS, FABRICS		Mar-96
80 CRADA THE STATE OF		GY, IRANSFER, CIR III III III III III III III III III	201	A CANTING SOME IN THE STATE OF		
61 PARTNERSHIP	N NASA JPL		2043			May-96
62 CRADA THE PARTY	CRADA HELLEN INVALUNCERSEX WARANECENTER THE	CYTOTHERAPEUTICS	787		ı	9
63 SAA	N NASA Larc	LOCTITE CORPORATION	1967	MATERIALS AND ADHESIVE POLYMERS		36-unf
64 PARTNERSHIP	64 PARTNERSHIP OF CTOTIVE THE RESTRICTION OF THE PROPERTY OF T	DISCOVERY SEMICONDICTORS NC	727			X
65 SAA	N NASA GSFC	GER CORP	2042	TECHNOLOGY		96-Inf
88 SAA	AS LACERTHEE TO A STATE OF THE	AMPING INCLUDING THE PROPERTY OF THE PROPERTY	8	PARTY CANADA		8 3
67 SAA	N NASA SSC	SAFETY SCAN INC	1952	TECTOR	UP NY	Aug-96
68 PARTNERSHIP	88 PARTNERSHIP N. WASA DROUGHELLINGTHEN	EASTMAN KODAK OO JEWIN THE STEELING THE STATE OF THE STAT	244	SCHOOL SECURE	Z	¥.
69 CRADA	F/S NAVAL UNDERSEA WARFARE CENTER	NICHE MEDICAL	2394	TURBULENT AIRFLOW NOZEL DESISGN	ã	Sep-96
70 CRADA	CRADA CRADA	WESTFALL MANUFACTURING THE THE PERSON	742	Televisian Africa		9
71 PARTNERSHIP	P SENSOR RESEARCH & DEVELOPMENT	KENTECINC	2482	<u>ا</u> ق		Sep-96
72 PARTNERSHIP	P SENSOR RESEARCH & DEVELOPMENT	KENTEC INCIDENTIAL PROPERTY OF THE PROPERTY OF	To.	AND SECTIONS		8
73 PARTNERSHIP	U CAFA	NORTHEASTERN UNIVERISITY	2556	T & CURRENT SENSOR	-	Oct-96
74 PARTNERSHIP	PARTNERSHIP! N. NASA HOTTING THE CONTINUE OF T	SEATTLE CONTROLL OF THE PROPERTY OF THE PROPER			9	8
75 PARTNERSHIP	N NASA JPL		2501	L EXTRACTION	_	Nov-96
78 PARTNERSHIP	78. PARTNERSHIP. IN INSK OSECILIE IN THE STATE OF THE STA	GESACI MOTHER THE PROPERTY OF THE PARTY OF T	3.5	NSTREMENTATION OF CONDENSARY	7	ž Ž
77 PARTNERSHIP	F/S AURA-NOAO	HUGHES DANBURY AND L&F INDUSTRIES	2273	INSTALLATION OF 6 TELESCOPES	2	Jan-97
78 PARTIVERSHIP N WEALT			Ţ			
79 PARTNERSHIP	N NASA LaRC	AIRFLOW CATALYST SYSTEMS INC.	2802	CO, NOX CATALYST	UP NY	Apr-97
80 PARTNERSHIP		Vendiller van Brandonska	*		ŧ	

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0	DADTAICDSUID	Ode - esem	VIRGINIA INSTITLITE OF MARINE SCIENCES	2403	TEST ELLORINATED POLYMERS	À	76-ant
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82 02	გ	82 CRADA FESTILE RES FACILITY	U.S. FELT MANUFACUTRING COMPANY	288T	TESTING COLD WEATHER FOOTWEAR	¥	7 8 -87
	OF STATE OF	NI MACA IDI	MVC INCTOLIMENTS INC	27.41	MASS SPECTPOMETED SYSTEM	ÀN QI	1.1.97
			100 10	Manager and and	HE POSTER MATERIAL STATES	STATE OF THE PERSON OF THE PER	45.24.54
84 PAF	TINERSHIP	PARTNERSHIP IN NASA UPL TERRITORING THE TERRITORING	AMHERST BYSTEMS, INC. II. I. I	2865	MACHINE VISION TECHNOLOGY, INTERNAL	A D	10.01
85 CR	CRADA	F/S NAVAL UNDERSEA WARFARE CENTER	CONNECTICUT TECHNOLOGY ASSOCIATES		TO IDENTIFY AND QUALITY COMPANIES	5	Aug-97
240	STACE CITE				THE PARAMETER POLICY CALLS OF	2	100
	ענואכואסטייו	The second of th		7			
87 PAF	PARTNERSHIP	F/S CTC INC	NATIONAL INSTITUTE OF JUSTICE	2735	***************************************	¥	Sep-97
88 PAF	TINERSHIP	PARTNERSHIP U CTC INC.	UNIVERSITY OF NEW HAMPSHIRE	2882	TECHNOLOGY, ITANASTER, ILLER,	9	10.00
89 PAF	PARTNERSHIP	F/S CTC OF LONG ISLAND, NEW YORK	LONG ISLAND FORUM FOR TECHNOLOGY	2715	CLIENT REFERRAL	LI NY	Sep-97
	111		LORAD CORPORATION 11	2961	ADVAKOTION DINITION OF THE CAMPOINT OF THE CAM	語も	100
	DADTNEDGUID	political designation of the property of the p	CTO INC	2958	Birth Carrier Car.	ç	
				THE PERSON	STRUCTURE (CONTRACTOR CONTRACTOR)		
92 PAF	PARTNERSHIP					THE LANGE	
93 PAF	PARTNERSHIP	F/S NOAA	CTC, INC.	2992	TECHNOLOGY ASSET REVIEW	g	Oct-97
94 PAF	TNERSHIP	PARTNERSHIP F/S INPEX XII EXPOSITION	100 No.	787	MARGING ASSISTANCE	2	9
95 PAF	PARTNERSHIP	N NASA LaRC	PHILIPS PROF. COMPONENTS GROUP	2898	EVALUATE OCD8	æ	Nov-97
90	DARTNERSHID	Ø.	STATE OF THE PROPERTY OF THE P			門る市市つるの	Descri
			Constitution of the contraction	2040		100 P. C. Taractura	To our
97 PA	PARTNERSHIP	P ICEL, INC.	OCEAN SPRAY CRANBERRIES, INC.	3043	PACAGENG TO DESTROY TEAST & MOLD	MA	1960-8/
98 PA	PARTNERSHIP	U UNIVERSITY OF ROCHESTER THE TENTER TO THE	BAUSCH'S LONB	8	CHANGE WITH THE PROPERTY OF TH		
99 PAF	PARTNERSHIP	P SOUTHWEST RESEARCH INSTITUTE (SRI)	GEMCORE, INC.	3003	EDDY CURRENT INSPEC OF AIRFRAMES	UP NY	
100 PA	PARTNERSHIP	N UNM MICROELECTRONICS CENTER	ADVANCED MICRON DEVICES	8		Q	8
	PARTNERSHIP	P CIC	RUSSIAN TECHNOLOGY TRANSFER CENTER	3084		皇	
	TAIL DELIN	775	NATIONAL TECHNOLOGY PARTIES OF THE PROPERTY OF	Illustration .			
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103 PAF	PARTNERSHIP	Jdr ywa N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3122	IMAGING ARRAYS	UP-NY	May-98
104 PA	RINERSHIP	PARTNERSHIP IN NASA GRECHITATION OF THE STATE OF THE STAT	RICHARDSON GRATING LABORATORY	3(20			*
105 PAF	PARTNERSHIP	F/S CTC INC	MASS ATTORNEY GENERAL'S OFFICE	2868	SEMINARS - TECH SUPPORT	ç	36-JnF
106 PA	RTNERSHIP	PARTNERSHIP U CICINO HILL	UNIVERSITY OF ARIZONA THE THE	3138	STATE OF SECTION SECTIONS	Ş	8
107 PA	PARTNERSHIP	S OTO INC	MINICIPAL POLICE INSTITUTE	3139	PROVIDE TRAINING AND TECH DEVEL	皇	96-Inr
10.9	RTNERSHIP		COUSIANA STATE UNIVERSITY BIT	305		2	80
109 PA	PARTNERSHIP	Second Se	MASS CHIEFS OF POLICE ASSOCIATION	3141	PROVIDE TRAINING AND TECH DEVEL	ç	Aug-98
110 PA	GINERALID	12.22		##5%##			Sec. 98
111 PA	PARTNERSHIP	DOT THE LET ALEXAND THE VICTOR AND THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE	T T T T T T T T T T T T T T T T T T T	3106		g	Sep-98
113 04	DINEBSHID				NAT WAVE TO SOUTH A CONTRACT		2
113 DA	PARTNERSHIP	ne ericon systems	CONVERSE INCORPORATED	3240	BARRIER PROP FOR GAS TRANSMISSION	R. R.	•
2				HILL TO SEE		***************************************	***************************************
114 PA	RINERGHIP	114 PARTNERSLIPTION CONVERSITY OF NEW HARBELINE		XX			
115 PA	PARTNERSHIP	L CTC INC	SCI & TECH COMM OF HEBE! PROV CHINA	3280	TECHNOLOGY TRANSFER	오	Dec-98
116 PA	RTNERSHIP	116 PARTNERSHIP U CTC INC THE CHILD THE THE COLUMN THE	UNIVERSITY OF CONNECTION OF THE PROPERTY OF TH	X	GENEGATITI PROGRES	5	200
117 PA	PARTNERSHIP	P XEROX CORPORATION	ACCURACY MICROSENSORS INC	3300	DEVELOP SPECIAL SENSORS	VP-NY	Jan-89
18 54			ROJANSANIANINGANORA				1
119 PA	119 PARTNERSHIP		SM&A CORPORATION (EAST)	3337	SUPPORT: NLECTC-NE IN LE ACTIVITIES	ą	Mar-99
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ACTIVITY	SPACE CENTER/AGENCY/COMPANY	NAME OF COMPANY	METRIC #	BRIEF DESCRIPTION S	STATE DATE	를 를 다
121 PARTNERSHIP	p TRS CERAMICS INC	BURLEIGH INSTRUMENTS INC	3395	T/ACTUATORS		66-
122 PARTNERSHIP	PARTNERSHIP. P. SKION CORPORATION	CEROX CORPORATION TO THE	826		ā	2
	PARTNERSHIP N NASA JPL	AMHERST SYSTEMS, INC.	3423	CMOS APA VIDEO CHIP	SE-IDC IN-40	ກ ີ ດ
124 PAKINEKOHINI	AND THE STANDARD OF THE STANDA	CONTROL MAINTENANCE OF THE SECOND SEC	3735		.	96-Inf
				WILLY HAVE BUILDING TO THE STREET		8
	N SPACE TELESCOPE SCI INST	SKY PUBLISHING CORP	3436	ELECTRONIC PICTUREBOOKS		99-Inc
128 PARTNERSHIP	PARTNERSHIP PRODUCT DEVELOPMENT INNOVATIONS LLC	EXERCYCLE INC. CONTINUES INC.	388	Contract of the Contract of th	3	84 128
129 CRADA	F/S DEPT OF THE NAVY - NUWC	AMERICAN IDUSTRIAL CASTINGS INC	3466	THERMAL PROPERTIES OF MATERIALS		96-Inf
130 PARTNERSHIP	PARTNERSHIP。 100 COC INC INC INC INC INC INC INC INC INC IN	THERMO TECHNOLOGY, VENTURES INC.	3362	このできることにいると言いているというないというという	M III	Aug-99
131 PARTNERSHIP	U SKION CORPORATION	JUNG KYUN KWAN UNIVERSITY	3736	(MEKKINE)++)	N. September	Sep-99
132 CRADA FELL	CRADA THE FIS DEPT OF THE NAVY NUMCHE	BURTON SNOWBOARDS! PER LINE	3489			
133 PARTNERSHIP	F/S CTC INC	7 Table 1	3364	STUDY-TECHPARTNERING CAPABILITIES	HO Ser	Sep-99
134 PARTNERSHIP	PARTNERSHIP CYRANO (JPL Technology)			ACTINISALINOSE: MEDICAL APRILIDATION		Sep -98
135 PARTNERSHIP	U UNIVERSITY OF NEW HAMPSHIRE	GILLETTE, WATERMAN DIV	3486	WATER-BASED POLYMER INK		Sep-99
138 PARTNERSHIP	U UNIVERSITY OF NEW HAMPSHIRE	GT EQUIPMENT TECHNOLOGIES INC.	# X	ACTURED OF NEW LYANDER INCHES	罐	3
137 SAA	N NASA GSFC	RICHARDSON GRATING LABORATORY	3529	DIFFRACTION GRATING	1	Oct-99
138 PARTNERSHIP	PARTNERSHIP UNIVERSITY OF NEW HAMPSHIRE	BECKINAN COUTURE III THE STATE OF THE STATE	35.6		8	3 8
139 PARTNERSHIP	U UNIVERSITY OF NEW HAMPSHIRE	PERSEPTIVE BIOSYSTEMS	3467	ENT	NH/ME OC	Oct-99
140 PARTNERSHIP	PARTNERSHIP. N. CTC INC. I.C. MEDITALITATION OF THE PARTNERSHIP. I.C. I.C. INC. II.C. MEDITALITATION OF THE PARTNERSHIP. I.C. I.C. II.C. III.C. III.C	EG&L SYSTEMS NCITITY - " HILL!	arad .	M. B. B. B. V. W. W. W. J. K. K.	8	8
141 PARTNERSHIP	P PLASMION CORPORATION	THE EGG FACTORY LLC	3737	PLASMA DISPLAY PANEL TECHNOLOGY	ij	Oct-99
142 PARTNERSHIP	PARTNERSHIP IF CTC. VIII THE THE STATE OF TH	NEW JERSEY SPACE GRANT CONSORTIUM	386	CHARLING RESTORATION OF THE PROPERTY OF THE PR		86,490
143 PARTNERSHIP	P SKION CORPORATION	PLASMION CORPORATION	3738	enithteriority	- 3	Nov-99
144 PARTNERSHIP	PARTNERSHIP OTC INC. THE PARTNERSHIP	SM & MED INDUSTRY PROMOTION CORP	3662			8 §
145 PARTNERSHIP	P ESTEE LAUDER CORP	ACCURACY MICROSENSORS INC	3552	***************************************	ŧ	Nov-99
146 PARTNERSHIP	P SCIENCES SERVICES INC.	CONTACT SCIENCE ATT.	X X			8
147 PARTNERSHIP	N VIRGINIA POWER/NASA LARC TECHNOLOGY	SENIOR FLEXONICS INC	3727	THUNDER TECHNOLOGY		Dec-99
148 PARTNERSHIP	U STEVENS INSTITUTE OF TECHNOLOGY	PLASMION CORPORATION	27	MARKAN CHECANA MERKANA TRANSPORTE		2
149 PARTNERSHIP	N SPACE TELESCOPE SCI INST	THE INK GROUP	3389		N. J. De	Dec-99
150 PARTNERSHIP	U ROCHESTER, INSTITUTE OF TECHNOLOGY	BAUSCH & LOMB THE STATE OF THE	3000		Ħ	8
151 PARTNERSHIP		BURLEIGH INSTRUMENTS INC	3779	***************************************	2	Feb-00
152 SAA, Andrews House	N GLENN REBEARCH CENTER (III)	ULTRALIFE BATTERIES INC.	10 TO 10	TOOK STATEMENT ON BATTERED THE STATEMENT OF THE STATEMENT	醒	8
153 PARTNERSHIP	U ROCHESTER INSTITUTE OF TECHNOLOGY	ALEXANDER MARTENS	3534	TECHNOLOGY MARKETING	1	Feb-00
154 PARTNERSHIP	154 PARTNERSHIP DE CIC. NO THE PROPERTY OF THE PARTNERS OF THE	BRINSNESS CORPORATION WITH MITTHEN THE	75			1 1 1 1 1 1 1 1 1 1
155 PARTNERSHIP	U CTC, INC.	EASTERN KENTUCKY UNIVERSITY	3850	LAW ENFORCEMENT TECHNOLOGY FARE	77.002.	Mar-00
156 PARTNERSHIP	156 PARTNERSHIP I FIS CTC-RUILLING THE	STATE OF RHODE ISCANDING INTERNAL	3866	A PER CONTROL OF THE SHEET		8
157 PARTNERSHIP	U UPSTATE CTC	UNIVERSITY OF ROCHESTER	3535	ASSIST WITH TECHNOLOGY TRANSFER	UP-NY Ju	Jun-00
158 PARTNERSKIP	158 PARTNERSHIP	II ZKSER (ZAST	200			
159 PARTNERSHIP	U WAKE FORREST UNIVERSITY	UNIVERSITY OF NEW HAMPSHIRE	3784	RESEARCH FOR METAL CHELATORS	NEWE S	8
160 PARTNERSHIP	TO PARRENAME OF UNIVERSITY OF THE CONTRACTOR OF		7.			

DATE	Jul-00 Aug-00 Aug-00	Aug-00	Aug-00	Aug-00	Aug-00	Oct-00	0ct-00	Nov-00	Dec-00	Jan-01	Mar-01
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	N = NASA & NASA Related	F/S = Federal/State	U = University	P = Private Industry to Industry
KEY	N = NAS	F/S = F	u= Uni	P = Priv

ACTIVE LEADS TO GODDARD

1					ACTIVE 1	CEADS	ACTIVE LEADS TO GODDARD		
 t	Tech		Company Name	CTC POC	Goddard POC	Status Update	Status	Core area/technology	Target Objective
7	Y	Dec-99	Action Environmental	J. Herz	G. Unger	Nov-00	Ongoing Rec'd provisional Patent	Sensors	TA
1	>	Dec-99	Dec-99 AAG Industries	J. Herz		Jan-01	-5	Environmental Systems	CA
1		Dec-99	Dec-99 Cabali Inc. (formerly Askec)	J. Dunn/ R. Rossi	E. Conwell	Apr-01		GenSAA-GENIE	TYC
1	>	Jan-00	Jan-00 Knowledge Systems, Inc.	R. Rossi	E. Conwell	Feb-01	License application is in process	GenSAA-GENIE	LIC or SAA
1		Feb.00	Feb.00 Rochester Institute of Technology	A. Martena	G. Unger	Apr-01	CLOSED	Remote Sensing	SAA
i	7	Mar-00	Mar-00 Intelligent Monitoring Systems Inc.	R. Rossi	E. Conwell	Feb-01	License application is in process	GenSAA-GENIE and incubator opportunity	LIC or SAA
1		Mar-00	Mar-00 Aspen Systems	J. Dunn	D. Mitchell	Jan-01	Visit to GSFC to be scheduled by J. Dunn	Nano carbona Several projects underway	LIC or SAA
1		May-00	Worcester Polytechnic Institute	T. Kennedy	Anel Flores	Feb-01	pu .	Firefighter locator system	MOU
	 	Jun-00	RelationOne	R. Callahan	E. Conwell	Sep-00	Met with GSFC	Information Systems	TIC
	>-	Sep-00		R. Callahan	E. Conwell	Nov-00	Met w/E. Conwell and Paul Mexcur	Information Systems	SBIR other TBD
1	Y	Sep-00	Sep-00 Barcoding.com	R. Callahan	not assigned	Jan-01	Made referral for a strategic partner	Information Systems Sensors & Detectors	
1	>	8	Can On Many James Microsophems Inc.	R Rosei	Glenn Unger	Feb-01	Unger identified tech	Sensors & Detectors	Tech
	-	·					contact now awaiting customer response on a visit to Goddard		तं संपृष
1	>	Sep-00	Sep-00 PFK & Company	R. Rossi	not assigned	Feb-01	Provided SBIR assistance and facilitated partnership with Rutgers	Information Systems	
.↓		Feb-01	Eastman Kodak	A. Martens	G. Unger	Mar-01	Martens gave opportunity to Unger	CCD imager	TBD
1_		Mar-01	Coming-NetOptix	A. Martens	J. Famiglietti	Mar-01	Mtg at GSFC	Mirror polishing technology	License
4		Mar-01		T. Kennedv	F. Schamann	Mar-01	Presentation made	Earth Alert	

CTC'S MAJOR OUTREACH EVENTS AND ACTIVITES

Conferences, Seminars, and Workshops

March 2000 —Cyber-Crime Training Program *

NDES *SAE *

April 2000 – RI Business Expo *

- Massachusetts Chief's of Police Annual Conference

- Northeast Council Teaming to Win *

May 2000 - NJ Technology Councils 2nd Annual Technology Transfer

Workshop *

Public Safety Technology Workshop *

Vermont Investors Forum *

- GSFC SBIR/STTR Faculty Workshop *

AUTM Workshop

June 2000 - NIJ Technology for Public Safety in Critical Incident Response

Conference and Exhibit *

– NE Minority Purchasing Council Trade Show *

August 2000 - NASA Conferences in Providence, RI *

- ISO *

- Arizona Tech Fair *

September 2000 - Fire Service Technology Summit

October 2000 - NJ Space Grant Consortia Symposium in Astrobiology at the

New Jersey Science Convention *

- Advanced Cyber-Crime Forensics Program

– Vermont Investors Forum *

- Eastern Kentucky University Technology Fair *

- NJ Academy of Science Conference on Science and Education

- Massachusetts Manufacturing Futures Summit

November 2000 - Technology 2000

- GSFC Aluminum Mirror Polishing Workshop

- International Association of Chiefs of Police Annual Training

and Technology Conference

February 2001 Northeast Products and Assessment Workshop, National

Correction Administrators Conference

Event and Activity Publicity

January 2000 - Industry Week

April 2000 - Unveiling of the Hubble Stamp *

May 2000 - Press release on www.businesswire.com

July 2000 - NASA Conferences article in the Providence Business Journal

August 2000 - NASA Conferences article in the Providence Journal

^{*} CTC was involved as an exhibitor, speaker, planner, sponsor, and/or host of this event.

Speaking Engagements, Papers, and Published Articles

January 2000 - A. Martens article in Laser Focus World

March 2000 - J. Dunn article in Hybrid Electric Vehicle '99

August 2000 - G. Wright spoke at the National Association of Women Business
Owners and Connecticut Procurement Technology Assistance

Program Annual conference

Meetings and Other Events

February 2000 - World Aquaculture Society Meeting

- Semi-Annual Meeting of the NASA Space Grant Directors

March 2000 - R. Rossi presentation to NJ Space Grant Consortium Year 2000

Convention Organization Committee

April 2000 - Unveiling of the Hubble Stamp

- Technology into the Zone Overview in New Haven

- Technology into the Zone Overview in Newark

May 2000 - Technology into the Zone Overview in Baltimore

- Technology into the Zone Orientation Seminar in New Haven

June 2000 - Technology into the Zone Orientation Seminar in Newark

- NJ Technology Council's Technology Workforce Meeting

July 2000 - Technology into the Zone Overview in Baltimore

September 2000 - Technology into the Zone Orientation Seminar in Baltimore

October 2000 - RI Manufactures' Association Meeting

November 2000 - Technology into the Zone Overview in Philadelphia

December 2000 - Boston Presentation of GSFC Earth Alert Project

January 2001 - Congressman Rush Holt, NJ

January 2001 - RI Senator Leo Blais

February 2001 - RI Slater Center Directors Meeting

March 2001 Earth Alert Project presentation at Natick Soldiers Center

Marketing Initiatives

February 2000 – 170-piece mailing

May 2000 – 260-piece mailing to minority businesses in the Northeast

June 2000 – 87-piece mailing on GSFC Aluminum Mirror Polishing

Technology

July 2000 – 68-piece mailing GSFC Sol-Gel Sensors

NASA Northeast Business Outreach Office

<u>Purpose</u>: Sustain and enhance the NASA Northeast Regional Business Outreach Office in Nashua, New Hampshire, which will serve as a catalyst for heightening regional business awareness of NASA needs and procurement opportunities. Particular emphasis will be placed on small business participation, with the highest priority being given to small disadvantaged businesses and women-owned businesses.

- 1.0 <u>Responsibilities</u>: The contractor shall employ a program manager who will provide six months of effort over the six-month period of performance. The contractor will actively seek out and provide information to vendors capable of supplying goods and services to NASA. Particular emphasis will be placed on small and small disadvantaged and women-owned businesses. Specifically the program manager will
 - 1.1 Respond to requests for information on NASA technology transfer, SBIR and contract opportunities and NASA programs.
 - 1.2 Travel on a regular basis to the Northeast States and offices to meet with industry, chambers of commerce, etc. Respond to requests for information and spread awareness of NASA's aeronautics and space programs, and supplier and subcontract opportunities with prime contractors.
 - 1.3 Publicize available resources and programs through local print and other media.
 - 1.4 Make contact with individuals and business groups in order to make them aware of the Northeast business outreach office as a resource. Also, disseminate information about business opportunities with NASA as well as other opportunities for technology "Spin-In" or "Spin-Out."
 - 1.5 Coordinate and cooperate with the NE RTTC and the Technology into the Zone Tasks. Include into this Task appropriate companies identified in those tasks and supply to those activities appropriate companies identified in this Task.

Outreach Initiatives:

- 1.5.1 Annually coordinate and host the Northeast Regional Technology and Business conference.
- 1.5.2 Annually coordinate and host NASA's Mentor Protégé Conference.
- 1.5.3 Attend industry/small business conferences in the Northeast area.
- 1.5.4 Coordinate semi-annual meeting of the NASA Consortium of Small Businesses.

- 1.6 Meet with major NASA contractors in the Northeast area to explore potential subcontracting opportunities for small, disadvantaged and women-owned businesses.
- 1.7 Facilitate access by business to the NASA Electronic Bulletin Board (EBB) for information on procurements, when EBB is implemented.
- 1.8 Create a database of small and disadvantaged business technical skills and resources to facilitate linkages to NASA contract programs and technology transfer opportunities.

2.0 NASA-Provided Assistance and Materials

NASA shall provide personnel to participate in conferences and workshops organized by the Program Manager. The role of NASA personnel will be to "tell the NASA story" including OSDBU, SBIR and other business opportunities.

Brochures and pamphlets on contracting with NASA will be provided for distribution. Also, NASA will provide miscellaneous NASA information, including telephone directories for NASA Headquarters and the NASA Centers along with points of contact at each facility.

- 3.0 Reports: At a minimum, the contractor will prepare and submit on a quarterly basis a log of the outreach office's activities, including:
 - (i) All contacts made. Include method of contact (e.g., telephone inquiry, walk-in, conference, firm name, address, telephone number, reason for contact, site of contact, action taken. Highlight repeat contacts.
 - (ii) Follow-up with contacts to ascertain the number and dollar value of contract awards or grants resulting from service provided.
 - (iii) Location and date of site visits, conferences, workshops, etc., and number of contacts made at each site.
 - (iv) Referral to other Federal Agencies and other states and local program offices.
 - (v) Report Distribution List:

1 copy K/ A.A. Mr. Thomas

1 copy RW/Dr. Norwood

1 copy RB/Ms. Williams

1 copy Goddard /210.H/Grant Officer

2 copies NASA Center for Aerospace Information

5.0 <u>Authority and Accountability:</u> Program and Program Manager shall report to the Office of Small and Disadvantaged Business Utilization, Code K, NASA Headquarters, Washington, DC.

Overview of Highlights and Significant Events through March 2001

NASA RELATED LICENSES/PARTNERSHIPS

No licenses were completed during the last three months of the NASA contract.

Partnerships completed during the last three months of the NASA contract include three partnerships below that are related to or enhance the NASA RTTC program.

UMEZ/NGH/Sloan Kettering/NYVNS -- CTC has leveraged a partnership between North General Hospital (the only private minority-operated teaching hospital in New York State), Memorial Sloan Kettering Cancer Research Center, The N.Y. Visiting Nurse Service, and CTC to study the effect of technology on pain palliation for chronically or terminally ill patients in the underserved uptown Manhattan minority communities. Details are provided in the "Technology into the Zone" section.

CTC's Public Safety Technology Center (PSTC) facilitated an MOU between CTC and the U.S. Army Soldier & Biological Chemical Command, Natick Soldier, Center, National Protection Center (Natick Labs) in Natick, Massachusetts. This is an agreement to collaborate on the development of technologies for law enforcement, other public safety purposes, as well as other technologies developed at the NSC. New technologies for law enforcement and other public safety organization will be investigated and developed if the appropriate funding sources are identified and secured. The initial objective of the program is to identify the needs and requirements for Fire Fighter/ Personnel locator technology. This MOU will initiate a process to review technology needs at Natick with ongoing research at Goddard for DOD/NASA joint development of technology. A presentation of the Goddard Earth Alert project was made by Mike Hobans (Aeptec) and Fred Schamann (GSFC) for Fire Officials at Natick Soldiers Center. This was part of a three-day conference on Fire Safety Technology by the National Fire Protection Association and hosted by Natick in March 2001.

A public safety partnership between the National Institute of Justice, Office of Science and Technology and CTC was announced by David Boyd, Director of NIJ/OST, at the March 22nd NIJ Tech Fair that was part of the Massachusetts Chiefs Vendors' Day in Boxboro, Massachusetts. This partnership is an initial step in NIJ's funding a New England Public Safety Technology Center managed by CTC.

Overview of Significant Activities and Events - through March 2001

NASA RELATED ACTIVITIES AND EVENTS

WORCESTER POLYTECHNIC/CTC BAA RESPONSE - CTC's PSTC is currently working with WPI to respond to a NASA BAA for further development of the firefighter locator. PSTC met with Fred Schamann at Goddard to discuss the Earth Alert project and firefighter system technology.

LICENSES/PARTNERSHIPS IN PROCESS – CTC-NJ continues to work with Goddard to license GenSAA technology to Knowledge Systems Inc. Upstate CTC-NY and CTC-VT are working with JPL to license their strain gage/pressure sensor to MicroStrain, Inc. of Burlington, Vermont. Upstate CTC continues to work with Goddard to establish an SAA with the Rochester Institute of Technology.

DTI NEW ARTICLE - An article describing Dimension Technologies Inc. (DTI) of Rochester, New York, and its technology appeared in the Sunday edition of the Rochester Democrat and Chronicle in January 28, 2001. NASA's R&D contracts and licenses (primarily with Ames Research Center) have played a key role in DTI's achievements. Much of what was developed for NASA was subsequently commercialized and contributed to the company's success. Alex Martens of Upstate CTC-NY assisted the company in developing their relationship with NASA.

FIRE FIGHTER TASK FORCE (FFTF) - Tom Kennedy organized efforts to continue the FFTF work with Robert Saba, formerly of MTAC. The FFTF was created by NASA and MTAC and will continue through the support of CTC, the Office of Law Enforcement Commercialization, and the Federal Laboratory Consortium.

INTEGRATED MISSION DESIGN CENTER (IMDC) - Bill Gasko worked with Ellen Herring of Goddard on an Integrated Mission Design Center report for NASA that will bring technology into the activities at the IMDC.

TECH ALERT - Alex Martens published the 4th edition of Tech Alert to provide the Northeast RTTC network with available technical information on new technologies available for licensing.

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Goddard's "Technology into the Zone" Program Success

Pain Palliation Study, UMEZ/North General Hospital

During the course of the NASA driven initiative to bring technology to minority and women owned businesses (MobWob), a strong relationship between the Upper Manhattan Empowerment Zone Development Corporation (UMEZ) and CTC was built. This relationship was initiated with a joint CTC-NASA orientation seminar on the "Technology into the Zone" program in Harlem in which Calvin Mitchell of GSFC participated as NASA's representative. At the time, NASA's commitment to bringing technology to underserved communities, particularly the Upper Manhattan community, was clearly articulated to all the attendees. A very strong, positive impression was made on NASA's behalf.

Approximately one year ago, CTC was asked by UMEZ to conceive and develop a project to address a U.S. Department of Commerce RFP in the area of telecommunications. UMEZ indicated that they were willing to match USDC funding. Health Care through telecommunications was chosen as the area due to it being the single largest employer, in the aggregate, in upper Manhattan.

During the initial stages of the "Technology into the Zone" program, met with a woman owned business in Boston that was representing a Canadian telemedicine technology. We met with and became familiar with the Canadian company, Caduceus Health Systems, Ltd. Leveraging this product familiarity with our knowledge of the medical needs of the community, and the relatively simple telecommunications network we felt could be established in Harlem. The Caduceus (now re-named Person to Person Health Systems, Inc. – (P2P)) technology was chosen as the major cost effective, user friendly, monitoring hardware basis for the program.

With the support of both UMEZ and NASA, we designed and wrote a successful \$1.125 million Department of Commerce grant (including matching funds from UMEZ) in the area of telemedicine, to study the effect of technology on pain palliation for chronically or terminally ill patients in the underserved uptown Manhattan minority communities (Harlem, Washington Heights, and Inwood). This deficit in pain management for minorities and the accompanying suffering has been well documented.

CTC has leveraged a partnership between North General Hospital (the only private minority-operated teaching hospital in New York State), Memorial Sloan Kettering Cancer Research Center, The N.Y. Visiting Nurse Service, and CTC.

By the end of September 2001, twenty-five P2P systems will be installed in the homes of terminal cancer, AIDs and congestive heart failure patients in Harlem. Two central monitoring stations will be installed, one at North General, and one at the Visiting Nurse Services facility. Local providers will be trained in installing and servicing the hardware.

In carrying out the work we will also evaluate some NASA technologies, including the NASA developed TIP, a *diagnostic* telemedicine device now being commercialized by CyberMDx of Houston. CTC is already working with CyberMDx in several other areas.

Goddard Space Flight Center's and The Center for Technology Commercialization's "Technology into the Zone" Program Progress Update

Empowerment Zones working with CTC

Since the program's inception, CTC has met with the Executive Boards in the following EZs/ECs and has provided formal program presentations to over 90 companies. Follow-up meetings and further discussions have taken place with approximately 40 companies. CTC is presently actively working with 28 EZ/EC companies. To date, three license applications have been submitted by companies we are working with; two at Goddard and one at Kennedy. One license has been issued.

We are actively working in and around the following EZs:

Boston, MA

Bronx, NY

Upper Manhattan, NY

Newark, NJ

Baltimore, MD

Philadelphia PA

We have been provided a list of 7 companies the Mayor's Action team would like us to work with right away; we expect to have a full program presentation to area companies by the end of March.

Recent Developments.

Dick Callahan and MTAC's Richard Tripp presented, to over 20 area companies, the EZ program in September through the Empower Baltimore Management Corporation (EBMC)—the folks who run the Baltimore EZ to over 20 area companies. Last week, EBMC requested a second presentation for April 26.

In addition, in late November, Glen Wright and Michael Forhan presented an overview of the program to a group assembled by Catherine Califano, Economic Development Director of the Philadelphia Empowerment Zone. A formal presentation to Philadelphia area companies is expected in late March. During the last quarter, 10 new companies have been identified and assisted, while 14 companies from other EZs and resulting from earlier presentations continue to be helped by CTC personnel.

CTC has provided services and assistance to more than 40 companies in connection with its "Technology into the Zone" program. Companies we continue to assist and with whom we are presently active are listed below.

The Companies:

New Jersey

RelationOne

Newark, NJ Monroe Bodden, President Seeking License for GSFC Technology CTC POC: Callahan, Rossi

GSFC POC: Callanan, Rossi GSFC POC: Evette Conwell

Three meetings have taken place involving CTC personnel and RelationOne, an IT developer. Application submitted for license for Information Systems technology to GSFC.

Intelligent Monitoring Systems (Consult2.com)

Jeff Cary, President

Newark, NJ

Seeking licenses for RMAS software from Kennedy and GENSAA-GENIE from GSFC and partnerships with GSFC and Kennedy. Also plans to locate in incubators there; ARL sensor also sought. One license from Kennedy has been issued.

CTC POC: Rossi

GSFC POC: Evette Conwell

After 3 meetings with CTC staff, applications for licenses (and for inclusion in incubators) submitted to both GSFC and Kennedy. Application for inclusion in the Goddard Baltimore Incubator has been approved assuming issuance of pending software license.

Knowledge Systems International

Teaneck, NJ
Mike Bullen, President
Seeking license from GSFC; Application submitted
CTC POC: Rossi

GSFC POC: Evette Conwell

Four meetings at KSI and two at Goddard have taken place. Awaiting approval of license application for GENSAA-GENIE technology from GSFC.

New Jersey Microsystems

Dr. Robert Carr, President

Newark, NJ

Has several patents of MEMS technology and is seeking collaboration with NASA on company's "smart MEMS" technology

Working with Glen Unger who has arranged meeting at other NASA Centers and at GSFC

CTC POC: Rossi

GSGC POC: Glen Unger

CTC's R. Rossi has met twice with Dr. Carr; awaiting scheduling of meeting at GSFC.

Natural Solutions, Inc.

Dr. M.Z. Miaza Patterson, NJ CTC POC: R. Rossi

R. Rossi has met with Dr. Miaza and is in early stages of exploring company needs and CTC/GSFC's capacity to address these requirements.

PFK & Company

Newark, NJ

Phil Kongtcheu, President

There is much CTC and PFK will be collaborating on, including visits soon to GSFC. CTC's Research Group conducted technology surveys at CTC/NJ's request on speech recognition technologies and speech recognition Centers of Excellence (more specifically, transmission channels) for PFK Technologies.

CTC POC: Rossi, Forhan

GSFC POC: Referred to CTC by Calvin Mitchell

R. Rossi and M. Forhan have reviewed business plan and have written letters of support on PFK's behalf to the New Jersey Commission on Science and Technology Partnership completed for SBIR collaboration with CAIP at Rutgers University. PFK has been provided with three technology searches.

3-G Wireless Technology

Newark, NJ

Lloyd Dowdell, president

R. Rossi has been working closely with Dowdell; GSFC now has been asked to identify possible GSFC technologies that Mr. Dowdell, a developer of innovative wireless applications, has indicated he needs. CTC POC Rossi, Forhan

CTC's R. Rossi has met twice with Dowdell and will provide ongoing support in area of technology assessment and possible partnering.

New York

Upper Manhattan EZ

New York, NY

CTC is at the center of a collaboration with North General Hospital in Harlem, Sloan-Kettering Cancer Institute with eventual NASA participation.

CTC POC: Dick Callahan; Jack Herz

\$1.2 Million grant has been awarded based on proposal CTC prepared.

Collaboration is ongoing. Program will provide telemedicine and other technologies to support more timely and reliable provision of pain and other medications to shutins residing in urban inner city areas. There are also possible NASA COTS medical applications that could come from this project. Matching funds from UMEZ now appear to have been approved by NYC Mayors Office

Frank Liz Organization (netmillionaire.com)

New York City CTC POC: J. Herz

CTC is being paid by UMEZ (Upper Manhattan Empowerment Zone) to assist company to prepare a business plan on the basis of which UMEZ can loan company money. Company sponsors business seminars for Spanish speaking Americans (and African Americans in the near term) on strategies involved in investing in stock market. These seminars together with supporting research information on the internet are sold to minority clients.

J. Herz recently spent three days consulting with company on Business Plan. In addition, Herz has met with the CEO of the Global Network Division of Verizon and will introduce him to company with a view towards setting up wide-ranging computer-training courses for Harlem residents. Work is ongoing on Business Plan with numbers to be finalized in the near term.

Symul@tions

New York City
James Lowell, President
CTC POC: J. Herz

Is new learning systems business.

After two meetings with principals, Jack Herz is providing assistance to this minority EZ company to attempt to license NASA-developed technology (under contract) located at Johnson Space Center. Investigations indicated the license was granted to the developer and Herz will attempt to get a license from developer for the company for their learning systems business.

Queens Health Network

Division of Health and Hospitals Corp. (HHC) Queens NY

CTC POC: Jack Herz

After extensive meetings with principals, two MOU's have been drafted and are being circulated for discussions between the principals (CyberMDx, a telemedicine company, and Dynoverse Inc., a computer simulations company for medical applications), HHC and CTC which would see a collaboration between CTC and HHC to seek licenses for two NASA (Johnson) Technologies. Queens is reputed to be the most poly-diverse community in the world.

Full Spectrum Inc.

NYC

Mr. Carlton Brown, President

Jack Herz is assisting this Harlem-based real estate developer to investigate sources of "green" technology including fuel cells, materials of construction, and other environmentally-friendly technologies for a 250-apartment complex under development and which is referred to as being Governor Pataki's "Green Poster Child" for similar environmentally sustainable projects.

J. Herz now networking Full Spectrum with regional fuel cell developers.

Evonyx Corp.

Liberty NY

CTC is arranging partnering opportunities for this minority-owned company.

CTC POC: Dunn

Madisyn Consulting

New York, NY Maria Granville, President

Upper Manhattan Internet based company that has visited GSFC and Nona but prospects for partnering and collaboration appear uncertain at this time

CTC POC: Herz

M. Forhan has met twice with company while J. Herz has met 5 times and brought company to Goddard once.

Astroworks, Inc

Manhattan, NY Sam Lieberwitz, CEO CTC POC: J. Herz

A ".com" business that provides "virtual trade shows" over the Internet. Appears willing to move company and its 10 jobs into the Upper Manhattan Empowerment Zone.

Massachusetts-Boston Area

Aspen Systems

Marlborough, MA

Dr. Kun Lee

Has developed world's most efficient insulation material, and reformers for fuel cells.

CTC is developing corporate partnerships for aerogel and fuel cell activities

CTC POC: Dunn

Jim Dunn has met several times with Dr. Lee.

Ongoing support for exploring partnership development. Also interested in nanocarbon technology from Goddard; Jim Dunn to arrange meeting at GSFC.

Action Environmental

Waltham, MA

Marcia Berger, President

Action Environmental described a problem they were Having; CTC personnel (J. Herz and J. Coffey) came up with solution that involved applying Goddard technologies in unique and patentable ways. CTC has assisted company in preparing a patent application for the use Goddard LIDAR Technology in measuring the level of liquids in environmental test wells and other applications. Ms. Berger and CTC's Jack Herz will visit GSFC next month to discuss licensing Goddard LIDAR altimeter technology.

CTC POC: J. Herz

GSFC POC: Joe Famiglietti

J. Herz and other CTC staff have had 5 meetings with Ms. Berger and Jack Herz met with Goddard personnel on her behalf.

Patent application submitted with CTC's assistance.

ElectroChem Inc.

Woburn, MA

Ms. Radha Jalan, CEO

This innovative developer of fuel cell technology is in discussions with CTC about identifying appropriate strategic partners and also companies CTC is actively working with who may be interested in acquiring them.

CTC POC Forhan, Dunn

Ongoing discussions with CTC's Jim Dunn about partnering/acquisition possibilities. Three meetings with Ms. Jalan have taken place.

Cabal'i Inc.
Boston, MA

Keith Donaldson

Intends to develop scalable infrastructures for ASP's (Application Service Providers). Donaldson has identified technologies at Ames he is interested in; Jim Dunn is making appropriate introductions.

CTC POC Rossi, Forhan, Dunn

Meeting held with Mr. Donaldson here at CTC. Cabal'i was recently awarded <u>First Prize</u> in MIT's "50K Warm-Up Competition", underscoring viability of company's technology.

Insight Neuroimaging Systems, Inc.

Worcester MA

Dr. Craig Ferris, Dr. Janet Turner, CEO

CTC POC: Dick Callahan

Minority-owned company has developed innovative technology for diagnostic imaging of small animals—an accomplishment heretofore thought impossible. Dick Callahan initially advised company in its start-up phase. This advice was adhered to and company has now successfully bought its new technology to a ready and receptive marketplace while retaining 100% of corporate equity in founders' hands through use of NIH SBIR and STTR programs.

Strategic business advice concerning overall planning and interactions with Varian, Inc. and other large potential partners/competitors. Company has met on several occasions with CTC's Dick Callahan.

Connecticut

SoniØ

Bridgeport, CT

CTC through J. Herz has been working with a small Bridgeport, CT minority-owned business, SoniØ, to help them get started and gain access to NASA technology where appropriate. The company has filed a rather extensive Provisional Patent Application on the use of ultrasonic energy for various proprietary purposes.

Together with Maher Osseiran, Company president, Herz visited Sonics, Inc., a Connecticut based manufacturer of ultrasonic generation equipment, and convinced Sonics to loan a generator to Osseiran to continue his development work. At present, he is focusing on the jewelry industry (where he has had some initial success), but we will see whether the food industry is an appropriate agglomeration technology target. We will also try to determine what sort of ultrasonic technology exists within NASA and where the technology may be useful.

CTC POC: Herz

At recent meetings in Chicago with the VP of Dairy Management Inc., Jack Herz has arranged for testing of company's technology by the California Dairy Research Association.

River Free Fish Farms New Haven, CT

Shawn Garris, President

J. Herz has met approximately 10 times with Mr. Garris who has established the first viable aquaculture-based company in the area. CTC has helped Garris identify potential market areas where fish farming in inner cities may work.

Helped identify species that would be appropriate to farm.

CTC POC: Herz

GSFC POC: Glen Unger

Ongoing advice and support being provided by CTC's J. Herz. Presently looking for new sensors from GSFC and NASA to make operation more efficient; these sensors must be able to identify ammonia, nitrate ions, CO2, and O2 in water and in air.

Elm City Die Casting Company

New Haven, CT

A new magnesium die casting opportunity in New Haven

Jack Herz reviewed a re-drafted business plan, and prepared a handout for a meeting set up by Dr. Alex Sommers (U. of New Haven) with Henry J. Fernandez III, New Haven's Economic Development Administrator and his Deputy, Judith Sheiffle. They have promised assistance in making other (particularly financing) contacts. It is Elm City's intention to locate a plant providing some 250-300 jobs for marginally employable inner city residents in the New haven EZ. CTC is investigating what types of technologies developed at GSFC (most likely sensors) would be appropriate for this industry.

CTC POC: Herz

GSFC POC: Glen Unger

Baltimore EZ-based companies

Access Technologies

Baltimore MD Brian Zukowski, Chairman & CEO

Has developed highly innovative wireless monitoring and reporting system for use by doctors and other medical personnel in hospitals. CTC POC: Callahan GSFC POC: Evette Conwell

Meeting took place with Evette Conwell (to identify possible GSFC technologies for commercialization) and Phil Metzger (to explore SBIR opportunities) on Thursday, November 9th. Several meetings between CTC (Dick Callahan) and Zukowski had already occurred. GSFC has provided additional information to company which now plans on participating in the SBIR program.

Barcoding.com

Baltimore MD Phil Steinmetz

Innovative developer of barcode technologies and applications worldwide. . CTC POC: Callahan

Has met with CTC twice and now needs to meet with Goddard to locate enabling technologies Referral for strategic partnering from company Battelle is working with recently provided to Barcoding.com

Harry Hopkins International

Baltimore, MD

Dr. Harry Hopkins, President

CTC POC: Dick Callahan, Dick Lembo

This minority-owned company has expressed an interest in partnering with CTC in commercializing four different technologies, three of them in the public safety arena, which dovetails nicely with Tom Kennedy's Public Safety technology initiatives. Company will need significant help if it is to succeed. Referred to CTC by Bob Norwood.

Two other Baltimore companies are in the early stages of being assisted; one has developed a unique testing method utilized to identify job applicants most likely to succeed in the detail-oriented yet repetitive and sometimes boring work so often found in laboratory environments; another claims to have devised a technology that can significantly extend the useful life of fuel rods in nuclear reactors.

Dick Callahan has met with and is assisting both companies.